Version 0 Interoperability Test SFQ05

Test Objectives:

Verify that the ECS SDPS and the EOSDIS V0 can exchange Directory, Inventory, and Guide information. Conduct browse activities and exchange pricing/accounting information and products to demonstrate interoperability. During the B.0 time-frame, there will be one-way interoperability. ECS users will be able to retrieve V0 data using the B0SOT. However, V0 users will not be able to access ECS data until ECS Release B.1. This test package contains tests to be conducted during the B.0 and B.1 time-frame. Functionality that will be tested in the Release B.1 time-frame has "Release B.1 functionality" indicated.

The objectives of this test are to verify that the:

- ECS SDPS can access Directory information from the EOSDIS V0 IMS
- ECS SDPS can access Inventory information from the EOSDIS V0 IMS
- ECS SDPS can access Guide information from the EOSDIS V0 IMS (Release B.1 functionality)
- ECS SDPS can conduct Browse activities against the EOSDIS V0 IMS
- ECS SDPS can receive pricing/accounting information from the EOSDIS V0 IMS (Release B.1 functionality)
- ECS SDPS can order/receive data products from the EOSDIS V0 IMS
- EOSDIS V0 IMS can access Directory information from the ECS SDPS (Release B.1 functionality)
- EOSDIS V0 IMS can access Inventory information from the ECS SDPS (Release B.1 functionality)
- EOSDIS V0 IMS can access Guide information from the ECS SDPS (Release B.1 functionality)
- EOSDIS V0 IMS can conduct Browse activities against the ECS SDPS (Release B.1 functionality)
- EOSDIS V0 IMS can receive pricing/accounting information from the ECS SDPS (Release B.1 functionality)
- EOSDIS V0 IMS can order/receive data products from the ECS SDPS

This set of tests will confirm that scientist and non-scientist users will be able to enter specific requests for images and other data. The test will also confirm that data orders are provided via both FTP and magnetic media. The test package execution includes both the ECS client accessing the V0 server and the V0 client accessing the ECS server (Release B.1 functionality) via an Xwindows GUI on UNIX Workstations and the World Wide Web.

Requirements verified:

EOSD1695#B EOSD1740#B EOSD5030#B IMS-0625#B IMS-0915#B V0-0010#B V0-0060#B V0-0070#B V0-0080#B V0-0090#B V0-0100#B V0-0110#B V0-0120#B V0-0150#B V0-0160#B V0-0170#B V0-0180#B V0-0190#B V0-0200#B V0-0230#B V0-0240#B V0-0350#B V0-0370#B V0-0380#B

Test Configuration:

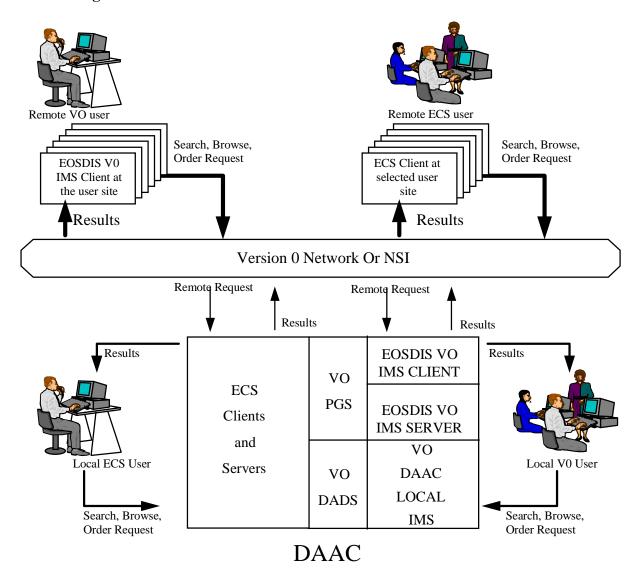


Exhibit 5-1 Relationship Between the V0 and the ECS

Test Case Summary:

The following table summarizes the test cases contained within the SFQ05 test package. Test cases have been identified for each of the DAACs. For the Release B.0 time-frame GSFC, LaRC, NSIDC and EDC will have a local version of the Release B.0 Search and Order Tool Client (B0SOT). Queries will be built using the DAAC's local version of the Release B.0 Client that will be used to query each of the Version 0 DAACs for Directory, Guide (Rel. B.1 functionality) and Inventory information. Integrated Browse, pricing/accounting (Rel. B.1 functionality) and product orders requests will also be conducted.

Test Case	Mission/	Test Description
ID	Instrument	Test Bescription
SFQ05.1.1	See Table 5-2	EDC DAAC testing (one-way interoperability) using the ECS Client (B0SOT) to query and receive results from the V0 Servers at each of the V0 DAACs. The test will include Directory, Inventory, and Browse searches, and product ordering.
SFQ05.1.2	See Table 5-2	Release B.1 Functionality, EDC DAAC testing (two way interoperability) using the V0 Client to query the ECS Servers at each of the ECS DAACs. The test will include Directory, Inventory, Guide and Browse searches, product pricing information exchange and product requests.
SFQ05.2.1	See Table 5-2	GSFC DAAC testing (one-way interoperability) using the ECS Client (B0SOT) to query and receive results from the V0 Servers at each of the V0 DAACs. The test will include Directory, Inventory, and Browse searches, and product ordering.
SFQ05.2.2	See Table 5-2	Release B.1 Functionality, GSFC DAAC testing (two way interoperability) using the V0 Client to query the ECS Servers at each of the ECS DAACs. The test will include Directory, Inventory, Guide and Browse searches, product pricing information exchange and product requests.
SFQ05.3.1	See Table 5-2	LaRC DAAC testing (one-way interoperability) using the ECS Client (B0SOT) to query and receive results from the V0 Servers at each of the V0 DAACs. The test will include Directory, Inventory, and Browse searches, and product ordering.
SFQ05.3.2	See Table 5-2	Release B.1 Functionality, LaRC DAAC testing (two way interoperability) using the V0 Client to query the ECS Servers at each of the ECS DAACs. The test will include Directory, Inventory, Guide and Browse searches, product pricing information exchange and product requests.
SFQ05.4.1	See Table 5-2	NSIDC DAAC testing (one-way interoperability) using the ECS Client (B0SOT) to query and receive results from the V0 Servers at each of the V0 DAACs. The test will include Directory, Inventory, and Browse searches, and product ordering.

SFQ05.4.2	See Table 5-2	Release B.1 Functionality, NSIDC DAAC testing (two
		way interoperability) using the V0 Client to query the
		ECS Servers at each of the ECS DAACs. The test will
		include Directory, Inventory, Guide and Browse
		searches, product pricing information exchange and
		product requests.

Table 5-1 SFQ05 Test Summary

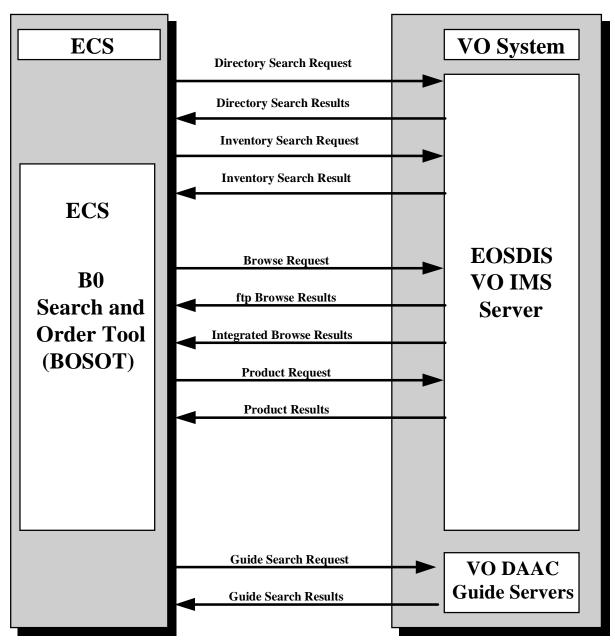


EXHIBIT 5-2 ECS as client; V0 as server

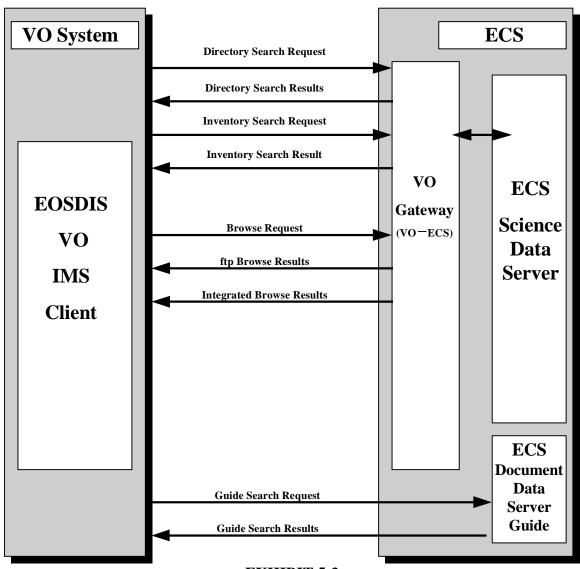


EXHIBIT 5-3 V0 as client; ECS as server

Participants and Support Requirements:

A. Participating Organizations:

M&O Support at ASF DAAC

M&O Support at EDC DAAC

M&O Support at GSFC DAAC

M&O Support at JPL DAAC

M&O Support at LaRC DAAC

M&O Support at NSDIS DAAC

M&O Support at ORNL DAAC

B. Communications:

Voice: phone lines to systems personnel

Data: EBnet WAN Routers and associated hardware

NSI for General Users

IP Addresses: Release B.0 IMS; XWindow GUI's, PC's

C. Equipment and Software:

Software: ECS Release B.0 Client Software (B0SOT/JEST) configured on each

workstation Desktop PC's, WWW Browsers, FTP Software

Hardware: UNIX Workstation, XWindow GUI's, PC

D. Test Tools:

TMDB: The Test Management Data Base tool will be used to keep track of all

test cases and procedures while mapping the requirements as they are

utilized.

BOSOT: B0 Search and Order Tool used to select and order products

JEST: JAVA Earth Science Tool used to select and order products

LoadRunner: For use with UNIX in order to execute queries.

XRunner: Utilized to create test scripts that can be run as often as necessary and

at any time, records results for later analysis.

E. Prerequisites:

ECS Release B.0 Client delivered to and accessible at the B.0 DAACs.

Note: If using a remote downloaded version of the IMS Client be sure that the Dependent Valids listing is updated.

F. Test Data:

The following test data sets have been selected for SFQ05. For Release B.0 testing, only Version 0 datasets will be required, since two-way interoperability will not be available in Release B.0. To verify that the Release B.0 Client can access data at all the V0 DAACs, queries will be submitted to each of the V0 DAACs from each of the B.0 Clients located at EDC, GSFC, LaRC and NSIDC. Specific test data sets to be used for Release B.1 testing will be finalized prior to Release B.1 test execution.

Data Source/Physical Location	Missions	Test Description	Test Station	Test Case ID
ASF		Directory/Inventory/ Browse/Product Request	Either by Telnet or local access at: EDC, GSFC, LaRC, NSIDC	All
EDC	NOAA-6	Directory/Inventory/ Browse/Product Request	Either by Telnet or local access at: EDC, GSFC, LaRC, NSIDC	All
GSFC	NOAA-7	Directory/Inventory/ Browse/Product Request	Either by Telnet or local access at: EDC, GSFC, LaRC, NSIDC	All
JPL	TOPEX/Poseidon	Directory/Inventory/ Browse/Product Request	Either by Telnet or local access at: EDC, GSFC, LaRC, NSIDC	All
LaRC	ERBS	Directory/Inventory/ Browse/Product Request	Either by Telnet or local access at: EDC, GSFC, LaRC, NSIDC	All
NOAA	/AVHRR		Either by Telnet or local access at: EDC, GSFC, LaRC, NSIDC	All
NSIDC			Either by Telnet or local access at:	All

Data Source/Physical Location	Missions	Test Description	Test Station	Test Case ID
			EDC, GSFC,	
			LaRC, NSIDC	
ORNL			Either by	All
			Telnet or local	
			access at:	
			EDC, GSFC,	
			LaRC, NSIDC	

Table 5-2 Test data for Release B.0

Test Case Descriptions:

5.1.1 Directory, Inventory, Browse and Product Orders at the EDC DAAC

EDC DAAC (ECS as the Client, V0 as the Server)

This test case is to verify that the ECS Client located at the EDC DAAC can perform Directory and Inventory searches, conduct browse activities and order/receive V0 data products.

Initial queries using the V0 Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the V0 DAACs will be performed, and the results logged. Then the ECS Client at the EDC DAAC, will be used to query for the same datasets to determine that the ECS Client receives the same results as the V0 Client. Data products will be ordered on all available media, to verify readability.

For testing in the B.1 time-frame, this test will be executed, and will include Guide search/results, as well as pricing/accounting information exchange.

Requirements to be verified:

EOSD1695#B EOSD5030#B IMS-0625#B IMS-0915#B V0-0010#B V0-0060#B V0-0070#B V0-0100#B V0-0110#B V0-0120#B V0-0200#B V0-0350#B V0-0370#B

Test Procedures:

Test Setup:

Step ID	Test	Actions	Expected Results	Comments
	Station			
1.001		Ensure the V0 System is up		
		and ready for access		
1.002		Verify the test data is		
		available, review and record		
		data sets available		
1.003		Verify the V0 Client is		
		available for access on the		
		PC or Workstation		
1.004		Record system and software		
		information. IP address of		
		PC or WS, environment		
		setup, known problems and		
		other relevant information		
		including date and time of		
		test.		

Step ID	Test Station	Actions	Expected Results	Comments
2.001		Log on to the PC or WS located at the DAAC, or via Telnet		
2.002		Input command to initialize the V0 IMS	EOSDIS V0 IMS initializing	
2.003		Select OK button	Welcome Screen	
2.004		Select Search Screen button	Search screen appears	
2.005		Select the Directory radio button	The radio button will appear depressed. The screen will change accordingly informing you of special restrictions and options.	
2.006		Select input criteria indicated in Table 5-2 (TBS) for each DAAC, from the list of options presented to you		To verify the ECS Client can query all the V0 Servers, this test will be ran to query for datasets from all V0 DAACs
2.007		Select Save Search button to save the selected criteria		Select name like GSFC5.1.1 for tracking purposes
2.008		Select Execute Search button from the bottom of the screen	Communications Status screen appears	
2.009		Observe the columns representing the search progress. Note if the "Receiving Results" column is highlighted. Note if transaction is aborted		
2.010		If the "Comments" button is highlighted Select it and observe the results	Returns a Comments screen	
2.011		When the "Completed Status" column is green under the column labeled View, select the data button	"Directory Results Screen" is displayed	
2.012		After verifying that the information matches the criteria selected, select one of the datasets (reference Table 5-2, TBS) by clicking on the "count" button.	Highlights the dataset selected	
2.013		Click on Detail Directory button	Provides Detailed directory information	
2.014		Observe the following	All information should	

	information: a) Brief Description, b) Attributes, c) Data Center, d) Personnel, e) Reference	correspond to input selected	
2.015	Under the "Go To" menu, select "Current Data Set Information	Directory Results Screen Appears	
2.016	Select the Data set and under the "Go To" menu select Inventory, Selected data set	Prompt: Do you wish to confirm search parameters?	
2.017	At the prompt, click yes	Inventory search screen is displayed.	
2.018	Select the "Geographic Area" button		Select area specified in Table 5-2, TBS
2.019	Select the "Select From the Map"	Geographic selection screen appears	
2.020	Select the "Search Screen"	Returns to "Search Screen"	
2.021	Select "Execute Search" button from the bottom of the screen	"Communications Status" screen appears	
2.022	When the "Completed Status" column is green, select the data button	"Inventory Results" screen is displayed	
2.023	Check the "Browse Available" (BA) column for the "Integrated Browse" (FB) capability and select it.	"FTP Browse" screen returned	
2.024	Select the order button	Returns the Order Screen	
2.025	Select the data set and click Package options	Returns package available	Data will be ordered on all available types of media to verify correctness
2.026	Fill in the appropriate information for ordering media. Click submit order. Order data for all types of media.	Communication Status indicating the transmission of the order is displayed.	
2.027	Communications Status screen indicates order was completed successfully. Click on "Contact Information" button	Displays information pertaining to the Data Center and the ID for tracking the order	
2.028	Log ID number for future reference		
2.029	Repeat steps 2.004 through 2.028		For all queries of the V0 DAAC's
2.030	Select the "Close" buttons on each screen	As the "Close" buttons are selected the Client backs out screen by	Log off the V0 Client

		screen until finished	
2.031	Log on to the PC or WS		Log on to the ECS Client (B0SOT)
2.032	Type in the command to access the ECS Desktop	ECS Desktop is initialized	
2.032a	Select the Advertising icon on the workstation desktop	Advertising Screen is displayed.	Verify data selected from the V0 queries is available
2.033	Type in the command to access the BOSOT.	A screen indicating access to the tool is displayed.	IMS GUI initialized
2.034	Click on User Profile and enter information: Save when information is complete.	This information is stored and referenced on subsequent logins.	
2.035	Click on "Directory" for type of search desired.	Directory search screen appears	
2.036	Choose Parameters information indicated in Table 5-2, TBS for each DAAC	Information selected is displayed on the screen.	
2.037	Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.1.1B0)
2.038	Click on "Execute Search" button	The directory search window results appear	
2.039	View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	
2.040	Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.041	If the "Comments" button is highlighted, this may indicate that data is continuing to be accessed. Click on "Comments" button to read additional information concerning data requested.	Additional information is displayed about the data transaction.	
2.042	Click on the "View Data" button to view the data sets available.	Several data sets and ID information are indicated on the directory results screen	
2.043	Verify that the data set information matches the parameter selections from the search screen	Data sets are expected to match the input parameters.	

2.044	C1: -11 "C	Th. 1.4 1	
2.044	Click on the "Count" button to select a data set.	The data set chosen is highlighted.	
2.045	Click on "Detailed	Detailed directory	
	Directory" button	information is	
		displayed.	
2.046	Select each option and verify	Detailed information is	
2.040	the information is based on	provided on the screen	
		-	
	the parameter information	· · · · · · · · · · · · · · · · · · ·	
2.047	selected.	chosen.	
2.047	Verify the accuracy of the	All information should	
	following information: a)	correspond to the	
	Brief Description, b)	criteria selected.	
	Attribute, c) Data Center, d)		
	Personnel, e) References		
2.048	Under the "Go To" menu	Directory Results	
	select the Current Data Set	Screen appears.	
	Information option	- 1	
2.049	Under the "Go To" menu	A Prompt appears "Do	
	select "Inventory" on	you wish to confirm	
	selected data set	search parameters?	
2.050	Select yes "To confirm	Inventory Search	
2.030	search parameters".	screen appears.	
2.051	Choose 1) Campaign Project	Information selected is	
2.031	2) Platform/Source 3)	displayed on the	
	Instrument/Sensor 4)	screen.	
	Parameter 5) All processing	sercen.	
	levels 6) Data set and Data		
	Center Information indicated		
	in Table 5-2, TBS		
2.052		A man annages to calcut	Colort such antion for
2.032	Select the Geographic Area	A map appears to select	Select each option for
	coverage options 1) Select	Latitude and Longitude	separate searches
2.052	from Map	parameters	
2.053	Select the 2) Rectangular	Choose S or N Latitude	
	Option	and E or W Longitude	
2.054	Select the 3) Four Corners	A screen appears with	
	Option	Four Corners and	
		Latitude and Longitude	
		is selected.	
2.055	Select the 4) Point and	A screen appears to	
	Range Option	select the Center Points	
		for Longitude and	
		Latitude	
2.056	Select the 5) Global		
	Granules Only Option		
2.057	Select the 6) Global Search	A map appears to select	
	Option	the Northernmost,	
	- F	Southernmost,	
		Easternmost and	
		Westernmost Area	
2.058	Select "Both" for Day and	11 CSCHIIIOSI AICA	
2.030	_		
2.050	Night Coverage		TTL . 1.61(' 100 TT
2.059	Select the number of		The default is 100. Use

	Casantas		100 for the initial
	Granules		100 for the initial search and change for
			subsequent searches.
2.060	Choose the Continuous Time		Select the Annually
2.000	Range Coverage		Repeating Time Period
	Range Coverage		for subsequent searches
			and alternate.
2.061	Click on the "Save Search"	The search information	and arternate.
2.001	button to save the parameters	is saved.	
2.062	Click on the "Execute	Communications Status	
	Search" button	screen appears	
		indicating status and	
		number of granules	
		found.	
2.063	In the "View" column click	Inventory Results	
	on "Data"	screen is displayed	
2.064	Select Data set indicated in		
	Table 5-2, TBS by clicking		
	on the "Count" button		
2.065	Under the "Go To" menu,	Browse Results Screen	
	select Browse	is displayed	
2.066	Verify browse image size		Compare to data from
			V0 query results
2.067	Click on View Image	Browse Image is	
		displayed	
2.068	Click the "Mark for Order"		
	radio button		
2.069	Click the "Close" button		
2.070	Verify the Inventory Results	Y is indicated in the	
	screen indicates the product	column O next to the	
	has been selected for order	dataset desired	
2.071	Click on the "Order Data"	Order Data screen	
	button	appears	
2.072	Click on Package ID, select	Package Options	
	package options: 1)	selection screen	
	Processing Option, 2) Media	appears	
2.072	Type, 3) Media Format	0.1 D . 0	
2.073	Click on OK	Order Data Screen	
2.074	Click on Submit Order	appears Order Data	
2.074	Click oil Sublilit Older	Communication Status	
		appears indicating	
		transmission of request.	
2.075	After Order request is	Information is	
	transmitted successfully,	displayed pertaining to	
	Select "View Contact	the order (e.g., Data	
	Information"	Center, ID number,	
		phone numbers, etc.)	
2.076	Repeat steps 2.033 through	, ,	
	2.075 until all queries listed		
	in Table 5-2, TBS have been		

2.077		Select Close on all screens	Client "backs out"	
-------	--	-----------------------------	--------------------	--

Step ID	Test Station	Actions	Expected Results	Comments
3.001		Compare all data sets with the ones expected. Verify the amount of data, time coverage and benchmark information available	The data sets are expected to match the criteria and the benchmark data sets.	
3.002		Indicate any discrepancies		
3.003		Verify that all searches have been saved before exiting the system. Log off the system.	The searches are expected to be saved for future test cases.	
3.004		Verify all sessions have been terminated. Retrieve printouts for future reference and further analysis.		

5.1.2 Directory, Inventory, Browse and Product Orders at the EDC DAAC (B.1)

EDC DAAC (V0 as the Client, ECS as the Server)

Accessing ECS data from the V0 Client is a Release B.1 capability.

This test case is to verify two-way interoperability. Using the V0 Client located at the EDC DAAC to query the ECS servers for Directory, Guide and Inventory searches, conduct browse activities and order ECS data products produced and archived at the ECS DAACs. The test will also verify that pricing information (ECS B.1 capability) is received.

Initial queries using the ECS Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the ECS DAACs will be performed, and the results logged. Then the V0 Client will be used to query for the same datasets at the ECS DAACs, to determine that the V0 Client receives the same results as the ECS Client. Data products will be ordered on all available media, to verify readability.

Requirements verified:

EOSD1695#B IMS-0625#B IMS-0915#B V0-0010#B V0-0150#B V0-0160#B V0-0170#B V0-0180#B V0-0190#B V0-0200#B V0-0230#B V0-0240#B V0-0350#B V0-0380#B EOSD1740#B

Test Procedures:

Test Setup:

Step ID	Test Station	Actions	Expected Results	Comments
1.001		Ensure the ECS System is up and ready for access		
1.002		Verify the test data is available, review and record data sets available		
1.003		Verify the ECS Client is available for access on the PC or Workstation		
1.004		Record system and software information. IP address of PC or WS, environment setup, known problems and other relevant information including date and time of test.		

Step ID	Test Station	Actions	Expected Results	Comments
2.001		Log on to the PC or WS		Log on to the ECS Client (B0SOT)
2.002		Type in the command to access the BOSOT.	A screen indicating access to the tool is displayed.	IMS GUI initialized
2.003		Select the Advertising icon on the workstation desktop	Advertising information will be displayed.	Verify data selected from the V0 queries is available
2.004		Click on User Profile and enter information: Save when information is complete.	This information is stored and referenced on subsequent logins.	
2.005		Click on "Directory" for type of search desired.	Directory search screen appears	
2.006		Choose Parameters information indicated in Table 5-2 (TBS) for each DAAC	Information selected is displayed on the screen.	
2.007		Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.1.2B0)
2.008		Click on "Execute Search" button	The directory search window results appear	
2.009		View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	

2.010	Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.011	If the "Comments" button is highlighted, this may indicate that data is continuing to be accessed. Click on "Comments" button to read additional information concerning data requested.	Additional information is displayed about the data transaction.	
2.012	Click on the "View Data" button to view the data sets available.	Several data sets and ID information are indicated on the directory results screen	
2.013	Verify that the data set information matches the parameter selections from the search screen	Data sets are expected to match the input parameters.	
2.014	Click on the "Count" button to select a data set.	The data set chosen is highlighted.	
2.015	Click on "Detailed Directory" button	Detailed directory information is displayed.	
2.016	Select each option and verify the information is based on the parameter information selected.	Detailed information is provided on the screen as each option is chosen.	
2.017	Verify the accuracy of the following information: a) Brief Description, b) Attribute, c) Data Center, d) Personnel, e) References	All information should correspond to the criteria selected.	
2.018	Under the "Go To" menu select the Current Data Set Information option	Directory Results Screen appears.	
2.019	Under the "Go To" menu select "Inventory" on selected data set	A Prompt appears "Do you wish to confirm search parameters?	
2.020	Select yes "To confirm search parameters".	Inventory Search screen appears.	
2.021	Choose 1) Campaign Project 2) Platform/Source 3) Instrument/Sensor 4) Parameter 5) All processing levels 6) Data set and Data Center Information indicated in Table 5-2 (TBS)	Information selected is displayed on the screen.	
2.022	Select the Geographic Area coverage options 1) Select	A map appears to select Latitude and Longitude	Select each option for separate searches

	from Map	parameters	
2.023	Select the 2) Rectangular	Choose S or N Latitude	
	Option	and E or W Longitude	
2.024	Select the 3) Four Corners	A screen appears with	
	Option	Four Corners and	
		Latitude and Longitude	
		is selected.	
2.025	Select the 4) Point and	A screen appears to	
	Range Option	select the Center Points	
		for Longitude and	
2.026	Select the 5) Global	Latitude	
2.020	Granules Only Option		
2.027	Select the 6) Global Search	A map appears to select	
2.027	Option Search	the Northernmost,	
	opuon	Southernmost,	
		Easternmost and	
		Westernmost Area	
2.028	Select "Both" for Day and		
	Night Coverage		
2.029	Select the number of		The default is 100. Use
	Granules		100 for the initial
			search and change for
2.020			subsequent searches.
2.030	Choose the Continuous Time		Select the Annually
	Range Coverage		Repeating Time Period
			for subsequent searches and alternate.
2.031	Click on the "Save Search"	The search information	and atternate.
2.031	button to save the parameters	is saved.	
2.032	Click on the "Execute	Communications Status	
	Search" button	screen appears	
		indicating status and	
		number of granules	
		found.	
2.033	In the "View" column click	Inventory Results	
	on "Data"	screen is displayed	
2.034	Select Data set indicated in		
	Table 5-2 (TBS) by clicking		
2.025	on the "Count" button Under the "Go To" menu,	Browse Results Screen	
2.035	select Browse	is displayed	
2.036	Verify browse image size	is displayed	Compare to data from
2.030	verify blowse image size		V0 query results
2.037	Click on View Image	Browse Image is	. o query resum
	care on the mage	displayed	
2.038	Click the "Mark for Order"		
	radio button		
2.039	Click the "Close" button		
2.040	Verify the Inventory Results	Y is indicated in the	
	screen indicates the product	column O next to the	
	has been selected for order	dataset desired	

2.041	Click on the "Order Data"	Order Data screen	
2.042	button Declared ID and a second	appears	
2.042	Click on Package ID, select	Package Options	
	package options: 1)	selection screen	
	Processing Option, 2) Media Type, 3) Media Format	appears	
2.043	Click on OK	Order Data Screen	
		appears	
2.044	Click on Submit Order	Order Data	
		Communication Status	
	!	appears indicating	
2045		transmission of request.	
2.045	After Order request is	Information is	
	transmitted successfully,	displayed pertaining to	
	Select "View Contact	the order (e.g., Data	
	Information"	Center, ID number,	
2.046	Description 2 002 through	phone numbers, etc.)	
2.046	Repeat steps 2.003 through		
	2.045 until all queries listed		
	in Table 5-2 (TBS) have been completed.		
2.047	Select Close on all screens	Client "backs out"	
2.047	Log on to the PC or WS	CHEIR DACKS OUT	
2.046	located at the DAAC, or via		
	Telnet		
2.049	Input command to initialize	EOSDIS V0 IMS	
2.019	the V0 IMS	initializing	
2.050	Select OK button	Welcome Screen	
2.051	Select Search Screen button	Search screen appears	
2.052	Select the Directory radio	The radio button will	
	button	appear depressed. The	
	!	screen will change	
	!	accordingly informing	
	!	you of special	
	!	restrictions and	
		options.	
2.053	Select input criteria		To verify the ECS
	indicated in Table 5-2 (TBS)		Client can query all the
	for each DAAC, from the list		V0 Servers, this test
	of options presented to you		will be ran to query for
			datasets from all V0
2.074			DAACs
2.054	Select Save Search button to		Select name like
	save the selected criteria		GSFC5.1.2 for tracking
2.055	Salast Evaguta Saarah huttar	Communications States	purposes
2.055	Select Execute Search button	Communications Status	
	from the bottom of the	screen appears	
2.056	Observe the columns		
2.056	Observe the columns representing the search		
	representing the search progress. Note if the		
	"Receiving Results" column		
i l	Receiving Results Column		

	is highlighted. Note if transaction is aborted		
2.057	If the "Comments" button is highlighted Select it and	Returns a Comments screen	
2.058	observe the results When the "Completed Status" column is green under the column labeled	"Directory Results Screen" is displayed	
	View, select the data button		
2.059	After verifying that the information matches the criteria selected, select one of the datasets (reference Table 5-2, TBS) by clicking on the "count" button.	Highlights the dataset selected	
2.060	Click on Detail Directory button	Provides Detailed directory information	
2.061	Observe the following information: a) Brief Description, b) Attributes, c) Data Center, d) Personnel, e) Reference	All information should correspond to input selected	
2.062	Under the "Go To" menu, select "Current Data Set Information	Directory Results Screen Appears	
2.063	Select the Data set and under the "Go To" menu select Inventory, Selected data set	Prompt: Do you wish to confirm search parameters?	
2.064	At the prompt, click yes	Inventory search screen is displayed.	
2.065	Select the "Geographic Area" button		Select area specified in Table 5-2, TBS
2.066	Select the "Select From the Map"	Geographic selection screen appears	
2.067	Select the "Search Screen"	Returns to "Search Screen"	
2.068	Select "Execute Search" button from the bottom of the screen	"Communications Status" screen appears	
2.069	When the "Completed Status" column is green, select the data button	"Inventory Results" screen is displayed	
2.070	Check the "Browse Available" (BA) column for the "Integrated Browse" (FB) capability and select it.	"FTP Browse" screen returned	
2.071	Select the order button	Returns the Order Screen	
2.072	Select the data set and click Package options	Returns package available	Data will be ordered on all available types of media to verify

			correctness
2.073	Fill in the appropriate information for ordering media. Click submit order.	Communication Status indicating the transmission of the order is displayed.	
2.074	Communications Status screen indicates order was completed successfully. Click on "Contact Information" button	Displays information pertaining to the Data Center and the ID for tracking the order	
2.075	Log ID number for future reference		
2.076	Repeat steps 2.051 through 2.076 until all DAACs have been queried.		
2.077	Select the "Close" buttons on each screen	As the "Close" buttons are selected the Client backs out screen by screen until finished	Log off the V0 Client

Step ID	Test Station	Actions	Expected Results	Comments
3.001		Compare all data sets with the ones expected. Verify the amount of data, time coverage and benchmark information available	The data sets are expected to match the criteria and the benchmark data sets.	
3.002		Indicate any discrepancies		
3.003		Verify that all searches have been saved before exiting the system. Log off the system.	The searches are expected to be saved for future test cases.	
3.004		Verify all sessions have been terminated. Retrieve printouts for future reference and further analysis.		

5.2.1 Directory, Inventory, Browse and Product Orders at the GSFC DAAC

GSFC DAAC (ECS as the Client, V0 as the Server)

This test case is to verify that the ECS Client located at the GSFC DAAC can perform Directory and Inventory searches, conduct browse activities and order/receive V0 data products (via FTP or electronic media).

Initial queries using the V0 Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the V0 DAACs will be performed, and the results logged. Then the ECS

Client at the GSFC DAAC, will be used to query for the same datasets to determine that the ECS Client receives the same results as the V0 Client. Data products will be ordered on all available media, to verify readability.

For testing in the B.1 time-frame, this test will be executed, and will include Guide search/results, as well as pricing and accounting information exchange.

Requirements verified:

EOSD1695#B IMS-0625#B V0-0010#B V0-0060#B V0-0070#B V0-0080#B V0-0090#B V0-0100#B V0-0110#B V0-0120#B V0-0240#B V0-0350#B

Test Procedures:

Test Setup:

Step ID	Test Station	Actions	Expected Results	Comments
1.001		Ensure the V0 System is up and ready for access		
1.002		Verify the test data is available, review and record data sets available		
1.003		Verify the V0 Client is available for access on the PC or Workstation		
1.004		Record system and software information. IP address of PC or WS, environment setup, known problems and other relevant information including date and time of test.		

Step ID	Test	Actions	Expected Results	Comments
	Station			
2.001		Log on to the PC or WS		
		located at the DAAC, or via		
		Telnet		
2.002		Input command to initialize	EOSDIS V0 IMS	
		the V0 IMS	initializing	
2.003		Select OK button	Welcome Screen	
2.004		Select Search Screen button	Search screen appears	
2.005		Select the Directory radio	The radio button will	
		button	appear depressed. The	
			screen will change	
			accordingly informing	

		you of special	
		restrictions and	
• • • • • • • • • • • • • • • • • • • •		options.	- 10 1 7.55
2.006	Select input criteria		To verify the ECS
	indicated in Table 5-2 (TBS)		Client can query all the
	for each DAAC, from the list		V0 Servers, this test
	of options presented to you		will be ran to query for
			datasets from all V0
			DAACs
2.007	Select Save Search button to		Select name like
	save the selected criteria		GSFC5.2.1 for tracking
			purposes
2.008	Select Execute Search button	Communications Status	
	from the bottom of the	screen appears	
	screen		
2.009	Observe the columns		
	representing the search		
	progress. Note if the		
	"Receiving Results" column		
	is highlighted. Note if		
• • • • • • • • • • • • • • • • • • • •	transaction is aborted		
2.010	If the "Comments" button is	Returns a Comments	
	highlighted Select it and	screen	
	observe the results		
2.011	When the "Completed	"Directory Results	
	Status" column is green	Screen" is displayed	
	under the column labeled		
2.012	View, select the data button	TT' 11' 1 d 1 d d	
2.012	After verifying that the	Highlights the dataset	
	information matches the	selected	
	criteria selected, select one of the datasets (reference Table		
	5-2, TBS) by clicking on the		
	"count" button.		
2.013	Click on Detail Directory	Provides Detailed	
2.013	button	directory information	
2.014	Observe the following	All information should	
2.014	information: a) Brief	correspond to input	
	Description, b) Attributes, c)	selected	
	Data Center, d) Personnel, e)	sciected	
	Reference		
2.015	Under the "Go To" menu,	Directory Results	
2.013	select "Current Data Set	Screen Appears	
	Information	Bereen rippears	
2.016	Select the Data set and under	Prompt: Do you wish to	
	the "Go To" menu select	confirm search	
	Inventory, Selected data set	parameters?	
	in oner, serected data set	L.	
2.017	At the prompt, click yes	Inventory search screen	
	FF-, James Jes	is displayed.	
2.018	Select the "Geographic		Select area specified in
	Area" button		Table 5-2 (TBS)
2.019	Select the "Select From the	Geographic selection	, ,
			1

	Map"	screen appears	
2.020	Select the "Search Screen"	Returns to "Search	
		Screen"	
2.021	Select "Execute Search"	"Communications	
	button from the bottom of	Status" screen appears	
	the screen		
2.022	When the "Completed	"Inventory Results"	
	Status" column is green,	screen is displayed	
	select the data button		
2.023	Check the "Browse	"FTP Browse" screen	
	Available" (BA) column for	returned	
	the "Integrated Browse"		
2.021	(FB) capability and select it.		
2.024	Select the order button	Returns the Order	
2.025		Screen	D : 211 1 1
2.025	Select the data set and click	Returns package	
	Package options	available	all available types of
			media to verify correctness
2.026	Fill in the appropriate	Communication Status	correctness
2.020	information for ordering	indicating the	
	media. Click submit order.	transmission of the	
	media. Chek subilit order.	order is displayed.	
2.027	Communications Status	Displays information	
	screen indicates order was	pertaining to the Data	
	completed successfully.	Center and the ID for	
	Click on "Contact	tracking the order	
	Information" button	C	
2.028	Log ID number for future		
	reference		
2.029	Repeat steps 2.004 through		
	2.028		
2.030	Select the "Close" buttons on	As the "Close" buttons	Log off the V0 Client
	each screen	are selected the Client	
		backs out screen by	
2.021	Leave de de DO WO	screen until finished	T
2.031	Log on to the PC or WS		Log on to the ECS
2.032	Type in the command to	A screen indicating	Client (B0SOT) IMS GUI initialized
2.032	access the BOSOT.	A screen indicating access to the tool is	IIVIS OUI IIIIIIAIIZEU
	access the BUSU1.	displayed.	
2.033	Select the Advertising icon	Advertising	Verify data selected
	on the workstation desktop	information will be	from the V0 queries is
	and working desired	displayed.	available
2.034	Click on User Profile and	This information is	
	enter information: Save	stored and referenced	
	when information is	on subsequent logins.	
	complete.		
2.035	Click on "Directory" for type	Directory search screen	
	of search desired.	appears	
2.036	Choose Parameters	Information selected is	
	information indicated in	displayed on the	

	Table 5-2 (TBS) for each DAAC	screen.	
2.037	Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.2.1B0)
2.038	Click on "Execute Search" button	The directory search window results appear	
2.039	View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	
2.040	Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.041	If the "Comments" button is highlighted, this may indicate that data is continuing to be accessed. Click on "Comments" button to read additional information concerning data requested.	Additional information is displayed about the data transaction.	
2.042	Click on the "View Data" button to view the data sets available.	Several data sets and ID information are indicated on the directory results screen	
2.043	Verify that the data set information matches the parameter selections from the search screen	Data sets are expected to match the input parameters.	
2.044	Click on the "Count" button to select a data set.	The data set chosen is highlighted.	
2.045	Click on "Detailed Directory" button	Detailed directory information is displayed.	
2.046	Select each option and verify the information is based on the parameter information selected.	Detailed information is provided on the screen as each option is chosen.	
2.047	Verify the accuracy of the following information: a) Brief Description, b) Attribute, c) Data Center, d) Personnel, e) References	All information should correspond to the criteria selected.	
2.048	Under the "Go To" menu select the Current Data Set Information option	Directory Results Screen appears.	
2.049	Under the "Go To" menu select "Inventory" on	A Prompt appears "Do you wish to confirm	

	selected data set	search parameters?	
2.050	Select yes "To confirm	Inventory Search	
	search parameters".	screen appears.	
2.051	Choose 1) Campaign Project	Information selected is	
	2) Platform/Source 3)	displayed on the	
	Instrument/Sensor 4)	screen.	
	Parameter 5) All processing		
	levels 6) Data set and Data		
	Center Information indicated		
2072	in Table 5-2 (TBS)		~
2.052	Select the Geographic Area	A map appears to select	Select each option for
	coverage options 1) Select	Latitude and Longitude	separate searches
2.052	from Map Select the 2) Rectangular	parameters Choose S or N Latitude	
2.053	Option Select the 2) Rectangular		
2.054	Select the 3) Four Corners	and E or W Longitude	
2.034	Option Option	A screen appears with Four Corners and	
	Option	Latitude and Longitude	
		is selected.	
2.055	Select the 4) Point and	A screen appears to	
2.000	Range Option	select the Center Points	
		for Longitude and	
		Latitude	
2.056	Select the 5) Global		
	Granules Only Option		
2.057	Select the 6) Global Search	A map appears to select	
	Option	the Northernmost,	
		Southernmost,	
		Easternmost and	
		Westernmost Area	
2.058	Select "Both" for Day and		
2.050	Night Coverage		The defended 100 Here
2.059	Select the number of Granules		The default is 100. Use 100 for the initial
	Granules		search and change for
			subsequent searches.
2.060	Choose the Continuous Time		Select the Annually
2.000	Range Coverage		Repeating Time Period
	Tanige Coverage		for subsequent searches
			and alternate.
2.061	Click on the "Save Search"	The search information	
	button to save the parameters	is saved.	
2.062	Click on the "Execute	Communications Status	
	Search" button	screen appears	
		indicating status and	
		number of granules	
		found.	
2.063	In the "View" column click	Inventory Results	
	on "Data"	screen is displayed	
2.064	Select Data set indicated in		
	Table 5-2 (TBS) by clicking		
	on the "Count" button		

2.065	Under the "Go To" menu, select Browse	Browse Results Screen is displayed	
2.066	Verify browse image size		Compare to data from V0 query results
2.067	Click on View Image	Browse Image is displayed	
2.068	Click the "Mark for Order" radio button		
2.069	Click the "Close" button		
2.070	Verify the Inventory Results screen indicates the product has been selected for order	Y is indicated in the column O next to the dataset desired	
2.071	Click on the "Order Data" button	Order Data screen appears	
2.072	Click on Package ID, select package options: 1) Processing Option, 2) Media Type, 3) Media Format	Package Options selection screen appears	
2.073	Click on OK	Order Data Screen appears	
2.074	Click on Submit Order	Order Data Communication Status appears indicating transmission of request.	
2.075	After Order request is transmitted successfully, Select "View Contact Information"	Information is displayed pertaining to the order (e.g., Data Center, ID number, phone numbers, etc.)	
2.076	Repeat steps 2.033 through 2.075 until all queries listed in Table 5-2 (TBS) have been completed. Select Close on all screens	Client "backs out"	
2.077	Beleet Close on an screens	Chefit backs out	

Step ID	Test Station	Actions	Expected Results	Comments
3.001	Station	Compare all data sets with the ones expected. Verify the amount of data, time coverage and benchmark information available	The data sets are expected to match the criteria and the benchmark data sets.	
3.002		Indicate any discrepancies		
3.003		Verify that all searches have been saved before exiting the system. Log off the system.	The searches are expected to be saved for future test cases.	
3.004		Verify all sessions have been terminated. Retrieve printouts for future reference and further analysis.		

5.2.2 Directory, Inventory, Browse and Product Orders at the GSFC DAAC (B.1)

GSFC DAAC (V0 as the Client, ECS as the Server)

Accessing ECS from the V0 Client is a Release B.1 capability.

This test case is to verify two-way interoperability. Using the V0 Client located at the GSFC DAAC to query the ECS servers for Directory, Guide and Inventory searches, conduct browse activities and order ECS data products archived at the ECS DAACs. The test will also verify that pricing information (ECS B.1 capability) is received.

Initial queries using the ECS Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the ECS DAACs will be performed, and the results logged. Then the V0 Client will be used to query for the same datasets at the ECS DAACs, to determine that the V0 Client receives the same results as the ECS Client. Data products will be ordered on all available media, to verify readability.

Requirements verified:

EOSD1695#B IMS-0625#B IMS-0915#B V0-0010#B V0-0150#B V0-0160#B V0-0170#B V0-0180#B V0-0190#B V0-0200#B V0-0230#B V0-0240#B V0-0350#B V0-0380#B EOSD1740#B

Test Procedures:

Test Setup:

Step ID	Test	Actions	Expected Results	Comments
	Station			
1.001		Ensure the ECS System is up		
		and ready for access		
1.002		Verify the test data is available, review and record data sets available		
1.003		Verify the ECS Client is available for access on the PC or Workstation		
1.004		Record system and software information. IP address of PC or WS, environment setup, known problems and other relevant information including date and time of test.		

Step ID	Test Station	Actions	Expected Results	Comments
2.001		Log on to the PC or WS		Log on to the ECS Client (B0SOT)
2.002		Type in the command to access the BOSOT.	A screen indicating access to the tool is displayed.	IMS GUI initialized
2.003		Select the Advertising icon on the workstation desktop	Advertising information will be displayed.	Verify data selected from the V0 queries is available
2.004		Click on User Profile and enter information: Save when information is complete.	This information is stored and referenced on subsequent logins.	
2.005		Click on "Directory" for type of search desired.	Directory search screen appears	
2.006		Choose Parameters information indicated in Table 5-2 (TBS) for each DAAC	Information selected is displayed on the screen.	
2.007		Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.2.2B0)
2.008		Click on "Execute Search" button	The directory search window results appear	
2.009		View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	
2.010		Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.011		If the "Comments" button is highlighted, this may indicate that data is continuing to be accessed. Click on "Comments" button to read additional information concerning data requested.	Additional information is displayed about the data transaction.	
2.012		Click on the "View Data" button to view the data sets available.	Several data sets and ID information are indicated on the directory results screen	
2.013		Verify that the data set	Data sets are expected	

	1	I	
	information matches the	to match the input	
	parameter selections from	parameters.	
	the search screen		
2.014	Click on the "Count" button	The data set chosen is	
	to select a data set.	highlighted.	
2.015	Click on "Detailed	Detailed directory	
2.013	Directory" button	information is	
	Directory button		
		displayed.	
2.016	Select each option and verify	Detailed information is	
	the information is based on	provided on the screen	
	the parameter information	as each option is	
	selected.	chosen.	
2.017	Verify the accuracy of the	All information should	
2.017	following information: a)	correspond to the	
	Brief Description, b)	criteria selected.	
		criteria selected.	
	Attribute, c) Data Center, d)		
	Personnel, e) References		
2.018	Under the "Go To" menu	Directory Results	
	select the Current Data Set	Screen appears.	
	Information option		
2.019	Under the "Go To" menu	A Prompt appears " Do	
2.01)	select "Inventory" on	you wish to confirm	
	selected data set	search parameters?	
2.020		-	
2.020	Select yes "To confirm	Inventory Search	
	search parameters".	screen appears.	
2.021	Choose 1) Campaign Project	Information selected is	
	2) Platform/Source 3)	displayed on the	
	Instrument/Sensor 4)	screen.	
	Parameter 5) All processing		
	levels 6) Data set and Data		
	Center Information indicated		
2.022	in Table 5-2 (TBS)		
2.022	Select the Geographic Area	A map appears to select	Select each option for
	coverage options 1) Select	Latitude and Longitude	separate searches
	from Map	parameters	
2.023	Select the 2) Rectangular	Choose S or N Latitude	
	Option	and E or W Longitude	
2.024	Select the 3) Four Corners	A screen appears with	
	Option Option	Four Corners and	
	Орион		
		Latitude and Longitude	
		is selected.	
2.025	Select the 4) Point and	A screen appears to	
	Range Option	select the Center Points	
		for Longitude and	
		Latitude	
2.026	Select the 5) Global		
	Granules Only Option		
2.027	Select the 6) Global Search	A map appears to select	
2.021			
	Option	the Northernmost,	
		Southernmost,	
		Easternmost and	
		Westernmost Area	
		<u> </u>	

2.028	Select "Both" for Day and		
	Night Coverage		
2.029	Select the number of		The default is 100. Use
	Granules		100 for the initial
			search and change for
			subsequent searches.
2.030	Choose the Continuous Time		Select the Annually
	Range Coverage		Repeating Time Period
			for subsequent searches
			and alternate.
2.031	Click on the "Save Search"	The search information	
	button to save the parameters	is saved.	
2.032	Click on the "Execute	Communications Status	
	Search" button	screen appears	
		indicating status and	
		number of granules	
2.022	Y .1 ((XY) 1) 1 1 1 1	found.	
2.033	In the "View" column click	Inventory Results	
2.024	on "Data"	screen is displayed	
2.034	Select Data set indicated in		
	Table 5-2 (TBS) by clicking		
2.035	on the "Count" button Under the "Go To" menu,	Browse Results Screen	
2.033	select Browse	is displayed	
2.036	Verify browse image size	is displayed	Compare to data from
2.030	verify browse image size		Compare to data from V0 query results
2.037	Click on View Image	Browse Image is	vo query resures
2.007	Chair on View Linings	displayed	
2.038	Click the "Mark for Order"		
	radio button		
2.039	Click the "Close" button		
2.040	Verify the Inventory Results	Y is indicated in the	
	screen indicates the product	column O next to the	
	has been selected for order	dataset desired	
2.041	Click on the "Order Data"	Order Data screen	
	button	appears	
2.042	Click on Package ID, select	Package Options	
	package options: 1)	selection screen	
	Processing Option, 2) Media	appears	
	Type, 3) Media Format		
2.043	Click on OK	Order Data Screen	
		appears	
2.044	Click on Submit Order	Order Data	
		Communication Status	
		appears indicating	
2.045	After Onder	transmission of request.	
2.045	After Order request is	Information is	
	transmitted successfully, Select "View Contact	displayed pertaining to	
	Information"	the order (e.g., Data Center, ID number,	
	mormation	phone numbers, etc.)	
2.046	Repeat steps 2.003 through	phone numbers, etc.)	
∠.U 1 U	Repeat steps 2.003 tillough		

	2.045 until all queries listed in Table 5-2 (TBS) have		
2015	been completed.		
2.047	Select Close on all screens	Client "backs out"	
2.048	Log on to the PC or WS located at the DAAC, or via Telnet		
2.049	Input command to initialize the V0 IMS	EOSDIS V0 IMS initializing	
2.050	Select OK button	Welcome Screen	
2.051	Select Search Screen button	Search screen appears	
2.052	Select the Directory radio button	The radio button will appear depressed. The screen will change accordingly informing you of special restrictions and options.	
2.053	Select input criteria indicated in Table 5-2 (TBS) for each DAAC, from the list of options presented to you		To verify the ECS Client can query all the V0 Servers, this test will be ran to query for datasets from all V0 DAACs
2.054	Select Save Search button to save the selected criteria		Select name like GSFC5.2.2 for tracking purposes
2.055	Select Execute Search button from the bottom of the screen	Communications Status screen appears	
2.056	Observe the columns representing the search progress. Note if the "Receiving Results" column is highlighted. Note if transaction is aborted		
2.057	If the "Comments" button is highlighted Select it and observe the results	Returns a Comments screen	
2.058	When the "Completed Status" column is green under the column labeled View, select the data button	"Directory Results Screen" is displayed	
2.059	After verifying that the information matches the criteria selected, select one of the datasets (reference Table 5-2, TBS) by clicking on the "count" button.	Highlights the dataset selected	
2.060	Click on Detail Directory button	Provides Detailed directory information	
2.061	Observe the following	All information should	

	information: a) Brief Description, b) Attributes, c) Data Center, d) Personnel, e) Reference	correspond to input selected	
2.062	Under the "Go To" menu, select "Current Data Set Information	Directory Results Screen Appears	
2.063	Select the Data set and under the "Go To" menu select Inventory, Selected data set	Prompt: Do you wish to confirm search parameters?	
2.064	At the prompt, click yes	Inventory search screen is displayed.	
2.065	Select the "Geographic Area" button		Select area specified in Table 5-2 (TBS)
2.066	Select the "Select From the Map"	Geographic selection screen appears	
2.067	Select the "Search Screen"	Returns to "Search Screen"	
2.068	Select "Execute Search" button from the bottom of the screen	"Communications Status" screen appears	
2.069	When the "Completed Status" column is green, select the data button	"Inventory Results" screen is displayed	
2.070	Check the "Browse Available" (BA) column for the "Integrated Browse" (FB) capability and select it.	"FTP Browse" screen returned	
2.071	Select the order button	Returns the Order Screen	
2.072	Select the data set and click Package options	Returns package available	Data will be ordered on all available types of media to verify correctness
2.073	Fill in the appropriate information for ordering media. Click submit order.	Communication Status indicating the transmission of the order is displayed.	
2.074	Communications Status screen indicates order was completed successfully. Click on "Contact Information" button	Displays information pertaining to the Data Center and the ID for tracking the order	
2.075	Log ID number for future reference		
2.076	Repeat steps 2.051 through 2.075		
2.077	Select the "Close" buttons on each screen	As the "Close" buttons are selected the Client backs out screen by screen until finished	Log off the V0 Client

Step ID	Test	Actions	Expected Results	Comments
	Station			
3.001		Compare all data sets with	The data sets are	
		the ones expected. Verify the	expected to match the	
		amount of data, time	criteria and the	
		coverage and benchmark	benchmark data sets.	
		information available		
3.002		Indicate any discrepancies		
3.003		Verify that all searches have	The searches are	
		been saved before exiting the	expected to be saved	
		system. Log off the system.	for future test cases.	
3.004		Verify all sessions have been		
		terminated. Retrieve		
		printouts for future reference		
		and further analysis.		

5.3.1 Directory, Inventory, Browse and Product Orders at the LaRC DAAC

LaRC DAAC (ECS as the Client, V0 as the Server)

This test case is to verify that the ECS Client located at the LaRC DAAC can perform Directory and Inventory searches, conduct browse activities and order V0 data products.

Initial queries using the V0 Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the V0 DAACs will be performed, and the results logged. Then the ECS Client at the LaRC DAAC, will be used to query for the same datasets to determine that the ECS Client receives the same results as the V0 Client. Data products will be ordered on all available media, to verify readability.

For testing in the B.1 time-frame, this test will be executed, and will include Guide search/results, as well as pricing/accounting information exchange.

Requirements verified:

EOSD1695#B IMS-0625#B V0-0010#B V0-0060#B V0-0070#B V0-0080#B V0-0090#B V0-0100#B V0-0110#B V0-0120#B V0-0240#B V0-0350#B

Test Procedures:

Test Setup:

Step ID	Test	Actions	Expected Results	Comments
	Station			

1.001	Ensure the	V0 System is up	
1.002	Verify th	e test data is review and record	
1.003	-	e V0 Client is For access on the kstation	
1.004	information PC or setup, known other release	stem and software n. IP address of VS, environment wn problems and want information date and time of	

Step ID	Test Station	Actions	Expected Results	Comments
2.001		Log on to the PC or WS located at the DAAC, or via Telnet		
2.002		Input command to initialize the V0 IMS	EOSDIS V0 IMS initializing	
2.003		Select OK button	Welcome Screen	
2.004		Select Search Screen button	Search screen appears	
2.005		Select the Directory radio button	The radio button will appear depressed. The screen will change accordingly informing you of special restrictions and options.	
2.006		Select input criteria indicated in Table 5-2 (TBS) for each DAAC, from the list of options presented to you		To verify the ECS Client can query all the V0 Servers, this test will be ran to query for datasets from all V0 DAACs
2.007		Select Save Search button to save the selected criteria		Select name like GSFC5.3.1 for tracking purposes
2.008		Select Execute Search button from the bottom of the screen	Communications Status screen appears	
2.009		Observe the columns representing the search progress. Note if the "Receiving Results" column is highlighted. Note if transaction is aborted		

2.010	If the "Comments" button is highlighted Select it and observe the results	Returns a Comments screen	
2.011	When the "Completed Status" column is green under the column labeled View, select the data button	"Directory Results Screen" is displayed	
2.012	After verifying that the information matches the criteria selected, select one of the datasets (reference Table 5-2, TBS) by clicking on the "count" button.	Highlights the dataset selected	
2.013	Click on Detail Directory button	Provides Detailed directory information	
2.014	Observe the following information: a) Brief Description, b) Attributes, c) Data Center, d) Personnel, e) Reference	All information should correspond to input selected	
2.015	Under the "Go To" menu, select "Current Data Set Information	Directory Results Screen Appears	
2.016	Select the Data set and under the "Go To" menu select Inventory, Selected data set	Prompt: Do you wish to confirm search parameters?	
2.017	At the prompt, click yes	Inventory search screen is displayed.	
2.018	Select the "Geographic Area" button		Select area specified in Table 5-2 (TBS)
2.019	Select the "Select From the Map"	Geographic selection screen appears	
2.020	Select the "Search Screen"	Returns to "Search Screen"	
2.021	Select "Execute Search" button from the bottom of the screen	"Communications Status" screen appears	
2.022	When the "Completed Status" column is green, select the data button	"Inventory Results" screen is displayed	
2.023	Check the "Browse Available" (BA) column for the "Integrated Browse" (FB) capability and select it.	"FTP Browse" screen returned	
2.024	Select the order button	Returns the Order Screen	
2.025	Select the data set and click Package options	Returns package available	Data will be ordered on all available types of media to verify correctness
2.026	Fill in the appropriate	Communication Status	

	information for ordering media. Click submit order.	indicating the transmission of the order is displayed.	
2.027	Communications Status screen indicates order was completed successfully. Click on "Contact Information" button	Displays information pertaining to the Data Center and the ID for tracking the order	
2.028	Log ID number for future reference		
2.029	Repeat steps 2.004 through 2.028		
2.030	Select the "Close" buttons on each screen	As the "Close" buttons are selected the Client backs out screen by screen until finished	Log off the V0 Client
2.031	Log on to the PC or WS		Log on to the ECS Client (B0SOT)
2.032	Type in the command to access the B0SOT.	A screen indicating access to the tool is displayed.	IMS GUI initialized
2.033	Select the Advertising icon on the workstation desktop	Advertising information will be displayed.	Verify data selected from the V0 queries is available
2.034	Click on User Profile and enter information: Save when information is complete.	This information is stored and referenced on subsequent logins.	
2.035	Click on "Directory" for type of search desired.	Directory search screen appears	
2.036	Choose Parameters information indicated in Table 5-2 (TBS) for each DAAC	Information selected is displayed on the screen.	
2.037	Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.3.1B0)
2.038	Click on "Execute Search" button	The directory search window results appear	
2.039	View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	
2.040	Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.041	If the "Comments" button is highlighted, this may	Additional information is displayed about the	

			T
	indicate that data is	data transaction.	
	continuing to be accessed.		
	Click on "Comments" button		
	to read additional		
	information concerning data		
	requested.		
2.042	Click on the "View Data"	Several data sets and	
	button to view the data sets	ID information are	
	available.	indicated on the	
		directory results screen	
2.043	Verify that the data set	Data sets are expected	
	information matches the	to match the input	
	parameter selections from	parameters.	
	the search screen		
2.044	Click on the "Count" button	The data set chosen is	
	to select a data set.	highlighted.	
2.045	Click on "Detailed	Detailed directory	
	Directory" button	information is	
		displayed.	
2.046	Select each option and verify	Detailed information is	
2.010	the information is based on	provided on the screen	
	the parameter information	as each option is	
	selected.	chosen.	
2.047	Verify the accuracy of the	All information should	
2.047	following information: a)	correspond to the	
	Brief Description, b)	criteria selected.	
	Attribute, c) Data Center, d)	criteria selected.	
2.040	Personnel, e) References Under the "Go To" menu	D'accident	
2.048		Directory Results	
	select the Current Data Set	Screen appears.	
2.040	Information option	A.D	
2.049	Under the "Go To" menu	A Prompt appears "Do	
	select "Inventory" on	you wish to confirm	
2.070	selected data set	search parameters?	
2.050	Select yes "To confirm	Inventory Search	
	search parameters".	screen appears.	
2.051	Choose 1) Campaign Project	Information selected is	
	2) Platform/Source 3)	displayed on the	
	Instrument/Sensor 4)	screen.	
	Parameter 5) All processing		
	levels 6) Data set and Data		
	Center Information indicated		
	in Table 5-2 (TBS)		
2.052	Select the Geographic Area	A map appears to select	Select each option for
	coverage options 1) Select	Latitude and Longitude	separate searches
	from Map	parameters	=
2.053	Select the 2) Rectangular	Choose S or N Latitude	
	Option	and E or W Longitude	
2.054	Select the 3) Four Corners	A screen appears with	
	Option Option	Four Corners and	
		Latitude and Longitude	
		is selected.	
2.055	Select the 4) Point and		
4.033	percer the +) rollit allu	A screen appears to	

	Range Option	select the Center Points for Longitude and Latitude	
2.056	Select the 5) Global Granules Only Option	Latitude	
2.057	Select the 6) Global Search Option	A map appears to select the Northernmost, Southernmost, Easternmost and Westernmost Area	
2.058	Select "Both" for Day and Night Coverage		
2.059	Select the number of Granules		The default is 100. Use 100 for the initial search and change for subsequent searches.
2.060	Choose the Continuous Time Range Coverage		Select the Annually Repeating Time Period for subsequent searches and alternate.
2.061	Click on the "Save Search" button to save the parameters	The search information is saved.	
2.062	Click on the "Execute Search" button	Communications Status screen appears indicating status and number of granules found.	
2.063	In the "View" column click on "Data"	Inventory Results screen is displayed	
2.064	Select Data set indicated in Table 5-2 (TBS) by clicking on the "Count" button		
2.065	Under the "Go To" menu, select Browse	Browse Results Screen is displayed	
2.066	Verify browse image size		Compare to data from V0 query results
2.067	Click on View Image	Browse Image is displayed	
2.068	Click the "Mark for Order" radio button		
2.069	Click the "Close" button Verify the Inventory Results screen indicates the product has been selected for order	Y is indicated in the column O next to the dataset desired	
2.071	Click on the "Order Data" button	Order Data screen appears	
2.072	Click on Package ID, select package options: 1) Processing Option, 2) Media Type, 3) Media Format	Package Options selection screen appears	
2.073	Click on OK	Order Data Screen appears	

2.074	Click on Submit Order	Order Data Communication Status appears indicating transmission of request.	
2.075	After Order request is transmitted successfully, Select "View Contact Information"	Information is displayed pertaining to the order (e.g., Data Center, ID number, phone numbers, etc.)	
2.076	Repeat steps 2.051 through 2.075 until all queries listed in Table 5-2 (TBS) have been completed.		
2.077	Select Close on all screens	Client "backs out"	

Step ID	Test Station	Actions	Expected Results	Comments
3.001		Compare all data sets with the ones expected. Verify the amount of data, time coverage and benchmark information available	The data sets are expected to match the criteria and the benchmark data sets.	
3.002		Indicate any discrepancies		
3.003		Verify that all searches have been saved before exiting the system. Log off the system.	The searches are expected to be saved for future test cases.	
3.004		Verify all sessions have been terminated. Retrieve printouts for future reference and further analysis.		

5.3.2 Directory, Inventory, Browse and Product Orders at the LaRC DAAC (B.1)

LaRC DAAC (V0 as the Client, ECS as the Server)

Accessing ECS from the V0 Client is a Release B.1 capability.

This test case is to verify two-way interoperability. Using the V0 Client located at the LaRC DAAC to query the ECS servers for Directory, Guide and Inventory searches, conduct browse activities and order ECS data products archived at the ECS DAACs. The test will also verify that pricing information (ECS B.1 capability) is received.

Initial queries using the ECS Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the ECS DAACs will be performed, and the results logged. Then the V0 Client will be used to query for the same datasets at the ECS DAACs, to determine that the V0 Client receives the same results as the ECS Client. Data products will be ordered on all available media, to verify readability.

Requirements verified:

EOSD1695#B IMS-0625#B IMS-0915#B V0-0010#B V0-0150#B V0-0160#B V0-0170#B V0-0180#B V0-0190#B V0-0200#B V0-0230#B V0-0240#B V0-0350#B V0-0380#B EOSD1740#B

Test Procedures:

Test Setup:

Step ID	Test Station	Actions	Expected Results	Comments
1.001		Ensure the ECS System is up and ready for access		
1.002		Verify the test data is available, review and record data sets available		
1.003		Verify the ECS Client is available for access on the PC or Workstation		
1.004		Record system and software information. IP address of PC or WS, environment setup, known problems and other relevant information including date and time of test.		

Test Execution:

Step ID	Test Station	Actions	Expected Results	Comments
2.001		Log on to the PC or WS		Log on to the ECS Client (B0SOT)
2.002		Type in the command to access the BOSOT.	A screen indicating access to the tool is displayed.	IMS GUI initialized
2.003		Select the Advertising icon on the workstation desktop	Advertising information will be displayed.	Verify data selected from the V0 queries is available
2.004		Click on User Profile and enter information: Save when information is complete.	This information is stored and referenced on subsequent logins.	
2.005		Click on "Directory" for type of search desired.	Directory search screen appears	
2.006		Choose Parameters information indicated in Table 5-2 (TBS) for each	Information selected is displayed on the screen.	

	DAAC		
2.007	Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.3.2B0)
2.008	Click on "Execute Search" button	The directory search window results appear	
2.009	View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	
2.010	Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.011	If the "Comments" button is highlighted, this may indicate that data is continuing to be accessed. Click on "Comments" button to read additional information concerning data requested.	Additional information is displayed about the data transaction.	
2.012	Click on the "View Data" button to view the data sets available.	Several data sets and ID information are indicated on the directory results screen	
2.013	Verify that the data set information matches the parameter selections from the search screen	Data sets are expected to match the input parameters.	
2.014	Click on the "Count" button to select a data set.	The data set chosen is highlighted.	
2.015	Click on "Detailed Directory" button	Detailed directory information is displayed.	
2.016	Select each option and verify the information is based on the parameter information selected.	Detailed information is provided on the screen as each option is chosen.	
2.017	Verify the accuracy of the following information: a) Brief Description, b) Attribute, c) Data Center, d) Personnel, e) References	All information should correspond to the criteria selected.	
2.018	Under the "Go To" menu select the Current Data Set Information option	Directory Results Screen appears.	
2.019	Under the "Go To" menu select "Inventory" on selected data set	A Prompt appears "Do you wish to confirm search parameters?	

2.020	Select yes "To confirm	Inventory Search	
	search parameters".	screen appears.	
2.021	Choose 1) Campaign Project	Information selected is	
	2) Platform/Source 3)	displayed on the	
	Instrument/Sensor 4)	screen.	
	Parameter 5) All processing		
	levels 6) Data set and Data		
	Center Information indicated		
	in Table 5-2 (TBS)		
2.022	Select the Geographic Area	A map appears to select	Select each option for
	coverage options 1) Select	Latitude and Longitude	separate searches
	from Map	parameters	1
2.023	Select the 2) Rectangular	Choose S or N Latitude	
2.020	Option 2, Itelangular	and E or W Longitude	
2.024	Select the 3) Four Corners	A screen appears with	
2.021	Option Option	Four Corners and	
	option .	Latitude and Longitude	
		is selected.	
2.025	Select the 4) Point and	A screen appears to	
2.023	Range Option	select the Center Points	
	Tango Option	for Longitude and	
		Latitude and	
2.026	Select the 5) Global	Luttude	
2.020	Granules Only Option		
2.027	Select the 6) Global Search	A map appears to select	
2.027	Option	the Northernmost,	
	Option	Southernmost,	
		Easternmost and	
		Westernmost Area	
2.028	Select "Both" for Day and	w esterninost Area	
	Night Coverage		
2.029	Select the number of		The default is 100. Use
	Granules		100 for the initial
			search and change for
			subsequent searches.
2.030	Choose the Continuous Time		Select the Annually
	Range Coverage		Repeating Time Period
			for subsequent searches
			and alternate.
2.031	Click on the "Save Search"	The search information	
	button to save the parameters	is saved.	
2.032	Click on the "Execute	Communications Status	
	Search" button	screen appears	
		indicating status and	
		number of granules	
		found.	
2.033	In the "View" column click	Inventory Results	
	on "Data"	screen is displayed	
2.034	Select Data set indicated in		
	Table 5-2 (TBS) by clicking		
	on the "Count" button		
2.035	Under the "Go To" menu,	Browse Results Screen	

	select Browse	is displayed	
2.036	Verify browse image size		Compare to data from V0 query results
2.037	Click on View Image	Browse Image is displayed	
2.038	Click the "Mark for Order" radio button		
2.039	Click the "Close" button		
2.040	Verify the Inventory Results screen indicates the product has been selected for order	Y is indicated in the column O next to the dataset desired	
2.041	Click on the "Order Data" button	Order Data screen appears	
2.042	Click on Package ID, select package options: 1) Processing Option, 2) Media Type, 3) Media Format	Package Options selection screen appears	
2.043	Click on OK	Order Data Screen appears	
2.044	Click on Submit Order	Order Data Communication Status appears indicating transmission of request.	
2.045	After Order request is transmitted successfully, Select "View Contact Information"	Information is displayed pertaining to the order (e.g., Data Center, ID number, phone numbers, etc.)	
2.046	Repeat steps 2.003 through 2.045 until all queries listed in Table 5-2 (TBS) have been completed.		
2.047	Select Close on all screens	Client "backs out"	
2.048	Log on to the PC or WS located at the DAAC, or via Telnet		
2.049	Input command to initialize the V0 IMS	EOSDIS V0 IMS initializing	
2.050	Select OK button	Welcome Screen	
2.051	Select Search Screen button	Search screen appears	
2.052	Select the Directory radio button	The radio button will appear depressed. The screen will change accordingly informing you of special restrictions and options.	
2.053	Select input criteria indicated in Table 5-2 (TBS) for each DAAC, from the list of options presented to you		To verify the ECS Client can query all the V0 Servers, this test will be ran to query for datasets from all V0

			DAACs
2.054	Select Save Search button to save the selected criteria		Select name like GSFC5.3.2 for tracking purposes
2.055	Select Execute Search button from the bottom of the screen	Communications Status screen appears	
2.056	Observe the columns representing the search progress. Note if the "Receiving Results" column is highlighted. Note if transaction is aborted		
2.057	If the "Comments" button is highlighted Select it and observe the results	Returns a Comments screen	
2.058	When the "Completed Status" column is green under the column labeled View, select the data button	"Directory Results Screen" is displayed	
2.059	After verifying that the information matches the criteria selected, select one of the datasets (reference Table 5-2, TBS) by clicking on the "count" button.	Highlights the dataset selected	
2.060	Click on Detail Directory button	Provides Detailed directory information	
2.061	Observe the following information: a) Brief Description, b) Attributes, c) Data Center, d) Personnel, e) Reference	All information should correspond to input selected	
2.062	Under the "Go To" menu, select "Current Data Set Information	Directory Results Screen Appears	
2.063	Select the Data set and under the "Go To" menu select Inventory, Selected data set	Prompt: Do you wish to confirm search parameters?	
2.064	At the prompt, click yes	Inventory search screen is displayed.	
2.065	Select the "Geographic Area" button		Select area specified in Table 5-2 (TBS)
2.066	Select the "Select From the Map"	Geographic selection screen appears	
2.067	Select the "Search Screen"	Returns to "Search Screen"	
2.068	Select "Execute Search" button from the bottom of the screen	"Communications Status" screen appears	
2.069	When the "Completed	"Inventory Results"	

	Status" column is green, select the data button	screen is displayed	
2.070	Check the "Browse Available" (BA) column for the "Integrated Browse" (FB) capability and select it.	"FTP Browse" screen returned	
2.071	Select the order button	Returns the Order Screen	
2.072	Select the data set and click Package options	Returns package available	Data will be ordered on all available types of media to verify correctness
2.073	Fill in the appropriate information for ordering media. Click submit order.	Communication Status indicating the transmission of the order is displayed.	
2.074	Communications Status screen indicates order was completed successfully. Click on "Contact Information" button	Displays information pertaining to the Data Center and the ID for tracking the order	
2.075	Log ID number for future reference		
2.076	Repeat steps 2.051 through 2.076		
2.077	Select the "Close" buttons on each screen	As the "Close" buttons are selected the Client backs out screen by screen until finished	Log off the V0 Client

Step ID	Test Station	Actions	Expected Results	Comments
3.001		Compare all data sets with the ones expected. Verify the amount of data, time coverage and benchmark information available	The data sets are expected to match the criteria and the benchmark data sets.	
3.002		Indicate any discrepancies		
3.003		Verify that all searches have been saved before exiting the system. Log off the system.	The searches are expected to be saved for future test cases.	
3.004		Verify all sessions have been terminated. Retrieve printouts for future reference and further analysis.		

5.4.1 Directory, Inventory, Browse and Product Orders at the NSIDC DAAC

NSIDC DAAC (ECS as the Client, V0 as the Server)

This test case is to verify that the ECS Client located at the NSIDC DAAC can perform Directory and Inventory searches, conduct browse activities and order V0 data products.

Initial queries using the V0 Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the V0 DAACs will be performed, and the results logged. Then the ECS Client at the NSIDC DAAC, will be used to query for the same datasets to determine that the ECS Client receives the same results as the V0 Client. Data products will be ordered on all available media, to verify readability.

For testing in the B.1 time-frame, this test will be executed, and will include Guide search/results, as well as pricing/accounting information exchange.

Requirements verified:

EOSD1695#B IMS-0625#B V0-0010#B V0-0060#B V0-0070#B V0-0080#B V0-0090#B V0-0100#B V0-0110#B V0-0120#B V0-0240#B V0-0350#B

Test Procedures:

Test Setup:

Step ID	Test Station	Actions	Expected Results	Comments
1.001		Ensure the V0 System is up and ready for access		
1.002		Verify the test data is available, review and record data sets available		
1.003		Verify the V0 Client is available for access on the PC or Workstation		
1.004		Record system and software information. IP address of PC or WS, environment setup, known problems and other relevant information including date and time of test.		

Test Execution:

Step ID	Test Station	Actions	Expected Results	Comments
2.001		Log on to the PC or WS located at the DAAC, or via Telnet		

2.002	Input command to initialize the V0 IMS	EOSDIS V0 IMS initializing	
2.003	Select OK button	Welcome Screen	
2.004	Select Search Screen button	Search screen appears	
2.005	Select the Directory radio button	The radio button will appear depressed. The screen will change accordingly informing you of special restrictions and options.	
2.006	Select input criteria indicated in Table 5-2 (TBS) for each DAAC, from the list of options presented to you		To verify the ECS Client can query all the V0 Servers, this test will be ran to query for datasets from all V0 DAACs
2.007	Select Save Search button to save the selected criteria		Select name like GSFC5.4.1 for tracking purposes
2.008	Select Execute Search button from the bottom of the screen	Communications Status screen appears	
2.009	Observe the columns representing the search progress. Note if the "Receiving Results" column is highlighted. Note if transaction is aborted		
2.010	If the "Comments" button is highlighted Select it and observe the results	Returns a Comments screen	
2.011	When the "Completed Status" column is green under the column labeled View, select the data button	"Directory Results Screen" is displayed	
2.012	After verifying that the information matches the criteria selected, select one of the datasets (reference Table 5-2, TBS) by clicking on the "count" button.	Highlights the dataset selected	
2.013	Click on Detail Directory button	Provides Detailed directory information	
2.014	Observe the following information: a) Brief Description, b) Attributes, c) Data Center, d) Personnel, e) Reference	All information should correspond to input selected	
2.015	Under the "Go To" menu, select "Current Data Set Information	Directory Results Screen Appears	
2.016	Select the Data set and under	Prompt: Do you wish to	

Г	1		T
	the "Go To" menu select Inventory, Selected data set	confirm search parameters?	
2.017	At the prompt, click yes	Inventory search screen is displayed.	
2.018	Select the "Geographic Area" button	A V	Select area specified in Table 5-2 (TBS)
2.019	Select the "Select From the Map"	Geographic selection screen appears	
2.020	Select the "Search Screen"	Returns to "Search Screen"	
2.021	Select "Execute Search" button from the bottom of the screen	"Communications Status" screen appears	
2.022	When the "Completed Status" column is green, select the data button	"Inventory Results" screen is displayed	
2.023	Check the "Browse Available" (BA) column for the "Integrated Browse" (FB) capability and select it.	"FTP Browse" screen returned	
2.024	Select the order button	Returns the Order Screen	
2.025	Select the data set and click Package options	Returns package available	Data will be ordered on all available types of media to verify correctness
2.026	Fill in the appropriate information for ordering media. Click submit order.	Communication Status indicating the transmission of the order is displayed.	
2.027	Communications Status screen indicates order was completed successfully. Click on "Contact Information" button	Displays information pertaining to the Data Center and the ID for tracking the order	
2.028	Log ID number for future reference		
2.029	Repeat steps 2.004 through 2.028		
2.030	Select the "Close" buttons on each screen	As the "Close" buttons are selected the Client backs out screen by screen until finished	Log off the V0 Client
2.031	Log on to the PC or WS		Log on to the ECS Client (B0SOT)
2.032	Type in the command to access the B0SOT.	A screen indicating access to the tool is displayed.	IMS GUI initialized
2.033	Select the Advertising icon on the workstation desktop	Advertising information will be displayed.	Verify data selected from the V0 queries is available

2.034	Click on User Profile and enter information: Save when information is complete.	This information is stored and referenced on subsequent logins.	
2.035	Click on "Directory" for type of search desired.	Directory search screen appears	
2.036	Choose Parameters information indicated in Table 5-2 (TBS) for each DAAC	Information selected is displayed on the screen.	
2.037	Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.4.1B0)
2.038	Click on "Execute Search" button	The directory search window results appear	
2.039	View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	
2.040	Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.041	If the "Comments" button is highlighted, this may indicate that data is continuing to be accessed. Click on "Comments" button to read additional information concerning data requested.	Additional information is displayed about the data transaction.	
2.042	Click on the "View Data" button to view the data sets available.	Several data sets and ID information are indicated on the directory results screen	
2.043	Verify that the data set information matches the parameter selections from the search screen	Data sets are expected to match the input parameters.	
2.044	Click on the "Count" button to select a data set.	The data set chosen is highlighted.	
2.045	Click on "Detailed Directory" button	Detailed directory information is displayed.	
2.046	Select each option and verify the information is based on the parameter information selected.	Detailed information is provided on the screen as each option is chosen.	
2.047	Verify the accuracy of the following information: a)	All information should correspond to the	

		г	
	Brief Description, b)	criteria selected.	
	Attribute, c) Data Center, d)		
	Personnel, e) References		
2.048	Under the "Go To" menu	Directory Results	
	select the Current Data Set	Screen appears.	
	Information option		
2.049	Under the "Go To" menu	A Prompt appears " Do	
2.04)	select "Inventory" on	you wish to confirm	
	1	, ,	
2.070	selected data set	search parameters?	
2.050	Select yes "To confirm	Inventory Search	
	search parameters".	screen appears.	
2.051	Choose 1) Campaign Project	Information selected is	
	2) Platform/Source 3)	displayed on the	
	Instrument/Sensor 4)	screen.	
	Parameter 5) All processing		
	levels 6) Data set and Data		
	Center Information indicated		
	in Table 5-2 (TBS)		
2.052		A man annuar to calcut	Select each option for
2.032	Select the Geographic Area	A map appears to select	1
	coverage options 1) Select	Latitude and Longitude	separate searches
	from Map	parameters	
2.053	Select the 2) Rectangular	Choose S or N Latitude	
	Option	and E or W Longitude	
2.054	Select the 3) Four Corners	A screen appears with	
	Option	Four Corners and	
		Latitude and Longitude	
		is selected.	
2.055	Select the 4) Point and	A screen appears to	
2.033	*	select the Center Points	
	Range Option		
		for Longitude and	
		Latitude	
2.056	Select the 5) Global		
	Granules Only Option		
2.057	Select the 6) Global Search	A map appears to select	
	Option	the Northernmost,	
	•	Southernmost,	
		Easternmost and	
		Westernmost Area	
2.058	Select "Both" for Day and	Joteliniost Heu	
2.030	•		
2.050	Night Coverage		TEL 1.6.14.1.400.77
2.059	Select the number of		The default is 100. Use
	Granules		100 for the initial
			search and change for
			subsequent searches.
2.060	Choose the Continuous Time		Select the Annually
	Range Coverage		Repeating Time Period
			for subsequent searches
			and alternate.
2.061	Click on the "Save Search"	The search information	
2.001			
2.062	button to save the parameters	is saved.	
2.062	Click on the "Execute Search" button	Communications Status	
		screen appears	1

	T		
		indicating status and	
		number of granules	
2.072	T .1 (477')) 1 1' 1	found.	
2.063	In the "View" column click	Inventory Results	
• • • •	on "Data"	screen is displayed	
2.064	Select Data set indicated in		
	Table 5-2 (TBS) by clicking		
	on the "Count" button		
2.065	Under the "Go To" menu,	Browse Results Screen	
	select Browse	is displayed	
2.066	Verify browse image size		Compare to data from
			V0 query results
2.067	Click on View Image	Browse Image is	
		displayed	
2.068	Click the "Mark for Order"		
	radio button		
2.069	Click the "Close" button		
2.070	Verify the Inventory Results	Y is indicated in the	
	screen indicates the product	column O next to the	
	has been selected for order	dataset desired	
2.071	Click on the "Order Data"	Order Data screen	
2.071	button	appears	
2.072	Click on Package ID, select	Package Options	
2.072	package options: 1)	selection screen	
	Processing Option, 2) Media	appears	
	Type, 3) Media Format	иррешь	
2.073	Click on OK	Order Data Screen	
2.073	Chek on OK	appears	
2.074	Click on Submit Order	Order Data	
2.074	Click oil Sublint Order	Communication Status	
		appears indicating	
2.075	After Order research is	transmission of request. Information is	
2.075	After Order request is		
	transmitted successfully,	displayed pertaining to	
	Select "View Contact	the order (e.g., Data	
	Information"	Center, ID number,	
2071		phone numbers, etc.)	
2.076	Repeat steps 2.033 through		
	2.075 until all queries listed		
	in Table 5-2 (TBS) have		
	been completed.		
2.077	Select Close on all screens	Client "backs out"	

Step ID	Test	Actions	Expected Results	Comments
	Station			
3.001		Compare all data sets with the ones expected. Verify the amount of data, time coverage and benchmark information available	expected to match the criteria and the	

3.002	Indicate any discrepancies		
3.003	Verify that all searches have	The searches are	
	been saved before exiting the	expected to be saved	
	system. Log off the system.	for future test cases.	
3.004	Verify all sessions have been		
	terminated. Retrieve		
	printouts for future reference		
	and further analysis.		

5.4.2 Directory, Inventory, Browse and Product Orders at the NSIDC DAAC (B.1)

NSIDC DAAC (V0 as the Client, ECS as the Server)

Accessing ECS from the V0 Client is a Release B.1 capability.

This test case is to verify two-way interoperability. Using the V0 Client located at the NSIDC DAAC to query the ECS servers for Directory, Guide and Inventory searches, conduct browse activities and order ECS data products archived at the ECS DAACs. The test will also verify that pricing information (ECS B.1 capability) is received.

Initial queries using the ECS Client to query for predetermined datasets (reference Table 5-2, TBS) at each of the ECS DAACs will be performed, and the results logged. Then the V0 Client will be used to query for the same datasets at the ECS DAACs, to determine that the V0 Client receives the same results as the ECS Client. Data products will be ordered on all available media, to verify readability.

Requirements verified:

EOSD1695#B IMS-0625#B IMS-0915#B V0-0010#B V0-0150#B V0-0160#B V0-0170#B V0-0180#B V0-0190#B V0-0200#B V0-0230#B V0-0240#B V0-0350#B V0-0380#B EOSD1740#B

Test Procedures:

Test Setup:

Step ID	Test	Actions	Expected Results	Comments
	Station			
1.001		Ensure the ECS System is up		
		and ready for access		
1.002		Verify the test data is		
		available, review and record		
		data sets available		
1.003		Verify the ECS Client is		
		available for access on the		
		PC or Workstation		
1.004		Record system and software		
		information. IP address of		
		PC or WS, environment		

setup, known problems and other relevant information including date and time of	
test.	

Test Execution:

Step ID	Test Station	Actions	Expected Results	Comments
2.001		Log on to the PC or WS	Desktop Initialized	Log on to the ECS Client (B0SOT)
2.002		Select the B0SOT icon	A screen indicating access to the tool is displayed.	IMS GUI initialized
2.003		Select the Advertising icon on the workstation desktop	Advertising information will be displayed.	Verify data selected from the V0 queries is available
2.004		Click on User Profile and enter information: Save when information is complete.	This information is stored and referenced on subsequent logins.	
2.005		Click on "Directory" for type of search desired.	Directory search screen appears	
2.006		Choose Parameters information indicated in Table 5-2 (TBS) for each DAAC	Information selected is displayed on the screen.	
2.007		Click on the "Save Search" button to save the selected parameters.	This search may be re- used later for regression purposes	Choose a save set name to identify the Test Case ID number (e.g., SFQ5.4.2B0)
2.008		Click on "Execute Search" button	The directory search window results appear	
2.009		View the "Communications Status" screen for status of the directory search in progress	Data Transmission status is indicated.	
2.010		Verify that each button is highlighted, indicating a successful completion: Open Connection, Sending Message, Receiving Results, Completed Successfully	The transaction is complete and data sets are available for viewing and transfer	
2.011		If the "Comments" button is highlighted, this may indicate that data is continuing to be accessed. Click on "Comments" button to read additional information concerning data requested.	Additional information is displayed about the data transaction.	
2.012		Click on the "View Data"	Several data sets and	

	1		
	button to view the data sets	ID information are	
	available.	indicated on the	
		directory results screen	
2.013	Verify that the data set	Data sets are expected	
	information matches the	to match the input	
	parameter selections from	parameters.	
	the search screen		
2.014	Click on the "Count" button	The data set chosen is	
	to select a data set.	highlighted.	
2.015	Click on "Detailed	Detailed directory	
	Directory" button	information is	
		displayed.	
2.016	Select each option and verify	Detailed information is	
2.010	the information is based on	provided on the screen	
	the parameter information	as each option is	
	selected.	chosen.	
2.017		All information should	
2.017	Verify the accuracy of the		
	following information: a)	correspond to the	
	Brief Description, b)	criteria selected.	
	Attribute, c) Data Center, d)		
	Personnel, e) References		
2.018	Under the "Go To" menu	Directory Results	
	select the Current Data Set	Screen appears.	
	Information option		
2.019	Under the "Go To" menu	A Prompt appears "Do	
	select "Inventory" on	you wish to confirm	
	selected data set	search parameters?	
2.020	Select yes "To confirm	Inventory Search	
	search parameters".	screen appears.	
2.021	Choose 1) Campaign Project	Information selected is	
	2) Platform/Source 3)	displayed on the	
	Instrument/Sensor 4)	screen.	
	Parameter 5) All processing	sercen.	
	levels 6) Data set and Data		
	Center Information indicated		
	in Table 5-2 (TBS)		
2.022		A man annagua ta calcat	Salast analy option for
2.022	Select the Geographic Area	A map appears to select	Select each option for
	coverage options 1) Select	Latitude and Longitude	separate searches
2.022	from Map	parameters	
2.023	Select the 2) Rectangular	Choose S or N Latitude	
2.024	Option	and E or W Longitude	
2.024	Select the 3) Four Corners	A screen appears with	
	Option	Four Corners and	
		Latitude and Longitude	
		is selected.	
2.025	Select the 4) Point and	A screen appears to	
	Range Option	select the Center Points	
		for Longitude and	
		Latitude	
2.026	Select the 5) Global		
	Granules Only Option		
2.027	Select the 6) Global Search	A map appears to select	
2.021	Befeet the of Global Beatell	11 map appears to select	

	Option	the Northernmost,	
	Option	Southernmost,	
		Easternmost and	
		Westernmost Area	
2.028	Select "Both" for Day and	, esterminost i nea	
	Night Coverage		
2.029	Select the number of		The default is 100. Use
	Granules		100 for the initial
			search and change for
			subsequent searches.
2.030	Choose the Continuous Time		Select the Annually
	Range Coverage		Repeating Time Period
			for subsequent searches
			and alternate.
2.031	Click on the "Save Search"	The search information	
	button to save the parameters	is saved.	
2.032	Click on the "Execute	Communications Status	
	Search" button	screen appears	
		indicating status and	
		number of granules found.	
2.033	In the "View" column click	Inventory Results	
2.033	on "Data"	screen is displayed	
2.034	Select Data set indicated in	screen is displayed	
2.034	Table 5-2 (TBS) by clicking		
	on the "Count" button		
2.035	Under the "Go To" menu,	Browse Results Screen	
	select Browse	is displayed	
2.036	Verify browse image size		Compare to data from
			V0 query results
2.037	Click on View Image	Browse Image is	
		displayed	
2.038	Click the "Mark for Order"		
	radio button		
2.039	Click the "Close" button		
2.040	Verify the Inventory Results		
	screen indicates the product	column O next to the	
2.041	has been selected for order Click on the "Order Data"	dataset desired	
2.041	button	Order Data screen	
2.042	Click on Package ID, select	appears Package Options	
2.042	package options: 1)	Package Options selection screen	
	Processing Option, 2) Media	appears	
	Type, 3) Media Format	appears	
2.043	Click on OK	Order Data Screen	
		appears	
2.044	Click on Submit Order	Order Data	
		Communication Status	
		appears indicating	
		transmission of request.	
2.045	After Order request is	Information is	
	transmitted successfully,	displayed pertaining to	

Select "View Contact the order (e.g., Data Center, ID number, phone numbers, etc.) 2.046 Repeat steps 2.003 through 2.045 until all queries listed in Table 5-2 (TBS) have	
2.046 Repeat steps 2.003 through 2.045 until all queries listed in Table 5-2 (TBS) have	
2.046 Repeat steps 2.003 through 2.045 until all queries listed in Table 5-2 (TBS) have	
2.045 until all queries listed in Table 5-2 (TBS) have	
in Table 5-2 (TBS) have	
1 1	
been completed.	
2.047 Select Close on all screens Client "backs out"	
2.048 Log on to the PC or WS	
located at the DAAC, or via	
Telnet	
2.049 Input command to initialize EOSDIS V0 IMS	
the V0 IMS initializing	
2.050 Select OK button Welcome Screen	
2.051 Select Search Screen button Search screen appears	
2.052 Select the Directory radio The radio button will	
button appear depressed. The	
screen will change	
accordingly informing	
you of special	
restrictions and	
options.	
2.053 Select input criteria To verify	the ECS
indicated in Table 5-2 (TBS)	
for each DAAC, from the list V0 Servers,	
of options presented to you will be ran to	
datasets from	
DAACs	i ali vo
2.054 Select Save Search button to Select nan	ne like
save the selected criteria GSFC5.4.2 fo	
	i tracking
2.055 Select Execute Search button Communications Status	
from the bottom of the screen appears	
screen	
2.056 Observe the columns	
representing the search	
progress. Note if the	
"Receiving Results" column	
is highlighted. Note if	
transaction is aborted	
2.057 If the "Comments" button is Returns a Comments	
highlighted Select it and screen	
observe the results	
2.058 When the "Completed "Directory Results	
Status" column is green Screen" is displayed	
under the column labeled	
View, select the data button	
2.059 After verifying that the Highlights the dataset	
information matches the selected	
criteria selected, select one of	
the datasets (reference Table	
the datasets (reference Table	
5-2, TBS) by clicking on the "count" button.	

2.060	Click on Detail Directory	Provides Detailed	
2061	button	directory information	
2.061	Observe the following	All information should	
	information: a) Brief	correspond to input	
	Description, b) Attributes, c)	selected	
	Data Center, d) Personnel, e)		
	Reference		
2.062	Under the "Go To" menu,	Directory Results	
	select "Current Data Set	Screen Appears	
	Information		
2.063	Select the Data set and under	Prompt: Do you wish to	
	the "Go To" menu select	confirm search	
	Inventory, Selected data set	parameters?	
2.064	At the prompt, click yes	Inventory search screen	
		is displayed.	
2.065	Select the "Geographic		Select area specified in
	Area" button		Table 5-2, TBS
2.066	Select the "Select From the	Geographic selection	,
	Map"	screen appears	
2.067	Select the "Search Screen"	Returns to "Search	
2.007	Select the Search Selech	Screen"	
2.068	Select "Execute Search"	"Communications	
2.008	button from the bottom of	Status" screen appears	
	the screen	Status screen appears	
2.060		"Inventory Results"	
2.069	When the "Completed	•	
	Status" column is green, select the data button	screen is displayed	
2.070		WEVER D 22	
2.070	Check the "Browse	"FTP Browse" screen	
	Available" (BA) column for	returned	
	the "Integrated Browse"		
2.071	(FB) capability and select it.	D : 1 0.1	
2.071	Select the order button	Returns the Order	
		Screen	
2.072	Select the data set and click	Returns package	Data will be ordered on
	Package options	available	all available types of
			media to verify
			correctness
2.073	Fill in the appropriate	Communication Status	
	information for ordering	indicating the	
	media. Click submit order.	transmission of the	
		order is displayed.	
2.074	Communications Status	Displays information	
	screen indicates order was	pertaining to the Data	
	completed successfully.	Center and the ID for	
	Click on "Contact	tracking the order	
	Information" button		
2.075	Log ID number for future		
	reference		
2.076	Repeat steps 2.051 through		
	2.075		
2.077	Select the "Close" buttons on	As the "Close" buttons	Log off the V0 Client

	each screen	are selected the Client	
		backs out screen by	
		screen until finished	

Step ID	Test Station	Actions	Expected Results	Comments
3.001		Compare all data sets with the ones expected. Verify the amount of data, time coverage and benchmark information available	The data sets are expected to match the criteria and the benchmark data sets.	
3.002		Indicate any discrepancies		
3.003		Verify that all searches have been saved before exiting the system. Log off the system.	The searches are expected to be saved for future test cases.	
3.004		Verify all sessions have been terminated. Retrieve printouts for future reference and further analysis.		